

EXHIBIT 47

CHIRON

Quantiplex™ Branched DNA Assay System

Chiron's branched DNA assays are based on *signal* rather than target amplification. This means that unlike PCR, the contamination of samples and reagents is not a major factor in providing reproducible, quantitative results. The testing can be done in any routine, clinical lab environment. The non-isotopic, 96-micro-well format, is not labor intensive or highly technique dependent. Good laboratory technique in accurate pipeting and in handling infectious materials is all that is required.

Quantitative assays for the detection of HBV-DNA and HCV-RNA in serum and HIV-RNA in plasma are currently available. These kits are available for **Research Use Only**.

Reagents: Kits include all the reagents required for running each assay. The current assay format includes a 4 point standard curve and a positive and negative control to be run each time the assay is performed. All standards, controls and patient specimens are tested in duplicate. The format allows for testing 42 patients with a 96 test kit. If smaller runs are desired, there are enough reagents to run the kit twice (18 patients per run). The assay kits have a 9 month shelf life from the time of manufacture.

Instrumentation: The Chiron Instrument System is required for the assays. This system includes a luminometer, computer, printer, data reduction software and two heaters that have been specifically designed for the assays. The HIV assay also requires a high speed centrifuge for processing plasma samples. The whole system requires approximately 4-6 feet of bench space.

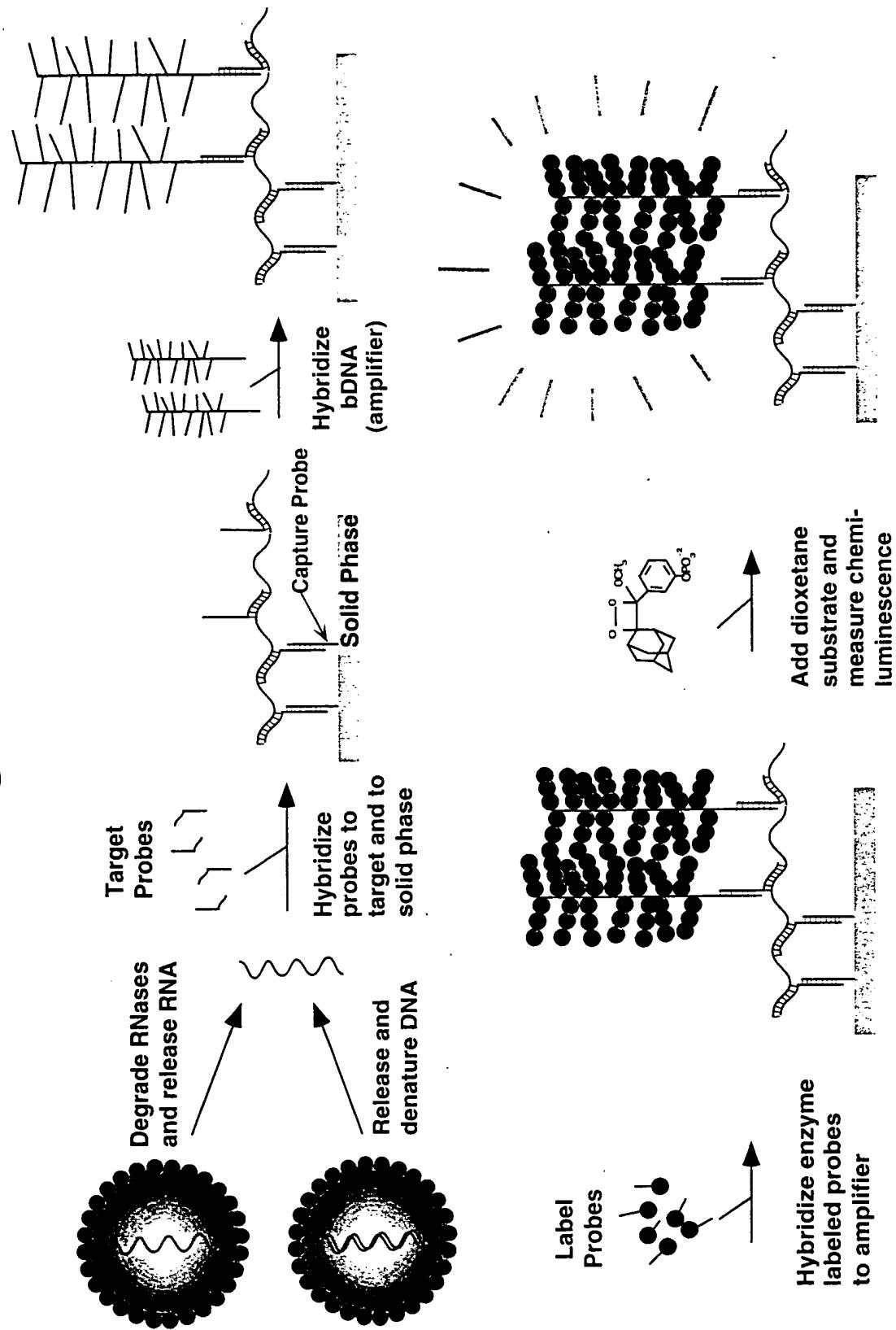
Technician Time: To process 42 patient samples the technician time for the assays is approximately 3 hours for the hepatitis assays and 5 hours for the HIV assay. The assay is designed so that plates are set up late in the afternoon, incubated overnight and testing is completed the next morning.

For additional information:

Chiron Diagnostics U.S.
4560 Horton Street
Emeryville, CA 94608-2916
Phone: 1-800-653-1353
Fax: 510-601-3307

Chiron Diagnostics, SA
36 Quai Fulchiron
69005 Lyon
FRANCE
Phone: 33 72 41 71 12
Fax: 33 78 37 40 62

Chiron bDNA Signal Amplification Assay



Signal Amplification Using Branched DNA (bDNA) Quantitation

